

## ABSTRACT

A device for inspecting microscopic objects. A plurality of LEDS is arranged in an array underneath a lens. Some of the LEDS are lighted and some of the LEDS are unlighted. A computer is in control of the LED array. The computer turns on selected LEDS from the array to form the lighted LEDS. Also, the computer turns off selected LEDS from the array to form the unlighted LEDS. The lighted LEDS form a pattern of lighted LEDS underneath the lens. In a preferred embodiment, the lens is connected to a computer controlled camera and the microscopic objects are microscopic crystals.